



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/675,166	09/30/2003	John K. Walton	EMC2-122PUS	5917
45456 75	90 07/27/2005		EXAMINER	
RICHARD M. SHARKANSKY PO BOX 557			NGUYEN, MIKE	
MASHPEE, M.	A 02649		ART UNIT PAPER NUMBER	
		•	2182	
			DATE MAIL ED: 07/27/2004	₹

Please find below and/or attached an Office communication concerning this application or proceeding.

	- k					
	Application No	Applicant(s)				
	10/675,166	WALTON ET AL.				
Office Action Summary	Examiner	Art Unit				
100000	Mike Nguyen	2182				
The MAILING DATE of this communication Period for Reply	appears on the cove	r sheet with the correspondence address				
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, and the period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by some any reply received by the Office later than three months after the received patent term adjustment. See 37 CFR 1.704(b).	DN. R 1.136(a). In no event, how n. a reply within the statutory mistriod will apply and will expire tatute, cause the application	ever, may a reply be timely filed nimum of thirty (30) days will be considered timely. SIX (6) MONTHS from the mailing date of this communication. to become ABANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 1	<u>1 June 2004</u> .					
2a) This action is FINAL . 2b) ⊠ This action is non-final.						
	·	rmal matters, prosecution as to the merits is				
closed in accordance with the practice und	ler Ex parte Quayle,	1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-5</u> is/are pending in the applicati	on.					
4a) Of the above claim(s) is/are with	drawn from conside	ration.				
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-5</u> is/are rejected.						
_ ,	7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction a	nd/or election require	ement.				
Application Papers						
9)☐ The specification is objected to by the Exar	niner.					
10)⊠ The drawing(s) filed on <u>09 February 2004</u> i	s/are: a)⊠ accepted	d or b)∭ objected to by the Examiner.				
Applicant may not request that any objection to	the drawing(s) be held	l in abeyance. See 37 CFR 1.85(a).				
	•	ne drawing(s) is objected to. See 37 CFR 1.121(d).				
11) ☐ The oath or declaration is objected to by th	e Examiner. Note the	e attached Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim for for a) ☐ All b) ☐ Some * c) ☐ None of:	eign priority under 3	5 U.S.C. § 119(a)-(d) or (f).				
1.☐ Certified copies of the priority docun	nents have been rec	eived.				
2. Certified copies of the priority documents have been received in Application No						
i ·	-	ave been received in this National Stage				
application from the International Bu	· ·					
* See the attached detailed Office action for a	list of the certified c	opies not received.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) [Interview Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948		Paper No(s)/Mail Date Notice of Informal Patent Application (PTO-152)				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SE Paper No(s)/Mail Date	6) L	Other:				
U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Office	ce Action Summary	Part of Paper No./Mail Date 07222005				

Application/Control Number: 10/675,166 Page 2

Art Unit: 2182

DETAILED ACTION

1. Claims 1-5 are pending for examination.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claim 4 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 4 recites the limitation "the input/output section" in line 12. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 5. Claims 1-5 are rejected under 35 U.S.C. 102(e) as being anticipated by Jacob et al. (U.S. Pub. No. 2004/0100980 A1).

As to claim 1, Jacobs teaches a queuing system (fig. 6), comprising:

at least one input/output interface (ports 610 and 620 of fig. 6 and output port of fig. 4) having an outbound queue (queue 670 of fig. 6); and

a plurality of processing units coupled to the at least one I/O interface (figs 1 and 6), each one of the processing units being coupled to a corresponding processing unit memory (queue manager 640 of fig. 6), each one of the processing unit memories having an inbound queue (virtual output queue 650 of fig. 6) for such coupled processing unit [0039]; and

wherein the at least one I/O interface outbound queue stores outbound information being returned to the I/O interface after being processed by one of the processing units [0038].

As to claim 2, Jacobs teaches the queuing system recited in claim 1 wherein the I/O interface creates queue indices for storage in the inbound queues of the processor unit memories (fig. 4 and [0030].

As to claims 3 and 5, Jacobs teaches a translation table, such table storing at a location a producer index for the plurality of processing units and a consumer index for such plurality of processing units [0030].

As to claim 4, Jacobs teaches a queuing system (fig. 6) comprising:

a plurality of interconnected directors (line card 1 ... N of fig. 1), each one of the directors (fig. 6) having:

an input/output interface section (ports 610 and 620 of fig. 6 and output port of fig. 4) for receiving information from a source thereof and for returning information to interface to such source [0038]; and,

Application/Control Number: 10/675,166

Art Unit: 2182

a microprocessor (queue manager 640 of fig. 6) for processing information sent thereto from a remote one of the directors [0038], each one of the microprocessors having a CPU and a CPU memory storing a queue (forwarding engine 630, queue manager 640 and virtual output queue 650) for inbound information passed to such director for processing therein such information being sent to the remote director remote director from an originating one of the directors [0039]; and

wherein each one of the input/output interface section includes a queue (queue 670 of fig. 6) for outbound information being returned to the source through such originating one of the directors after being processed by the microprocessor of such remote one of the directors [0038].

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

U.S. Pat. No. 5,991,819 (Young)

U.S. Pat. No. 6,321,279 B1 (Bonola).

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mike Nguyen whose telephone number is 571 272-4153. The examiner can normally be reached on 8:00AM-4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dov Popovici can be reached on 571 272-4083. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/675,166 Page 5

Art Unit: 2182

8. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mike Nguyen Patent Examiner Group Art Unit 2182

07/22/2005

KIM HUYNH PRIMARY EXAMINER

Ţ